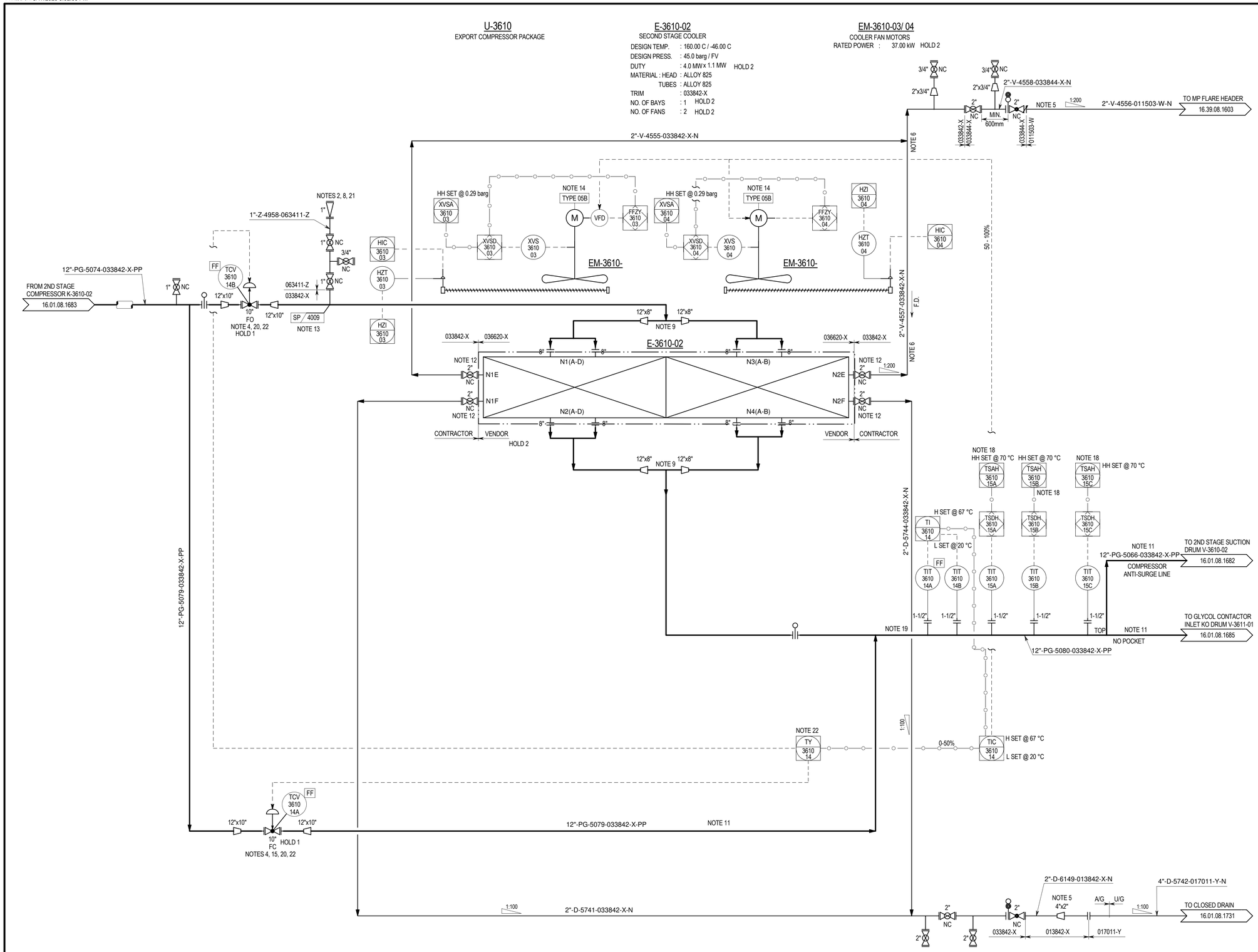
U-3610
EXPORT COMPRESSOR PACKAGE

E-3610-02
SECOND STAGE COOLER

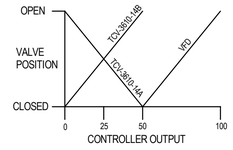
DESIGN TEMP. : 160.00 C / -46.00 C
DESIGN PRESS. : 45.0 barg / FV
DUTY : 4.0 MW x 1.1 MW HOLD 2
MATERIAL : HEAD : ALLOY 825
TUBES : ALLOY 825
TRIM : 033842-X
NO. OF BAYS : 1 HOLD 2
NO. OF FANS : 2 HOLD 2

EM-3610-03/ 04
COOLER FAN MOTORS
RATED POWER : 37.00 kW HOLD 2



NOTES

1. ALL THE EQUIPMENT AND INSTRUMENT TAG NUMBERS ON THIS DRAWING ARE PREFIXED BY AREA CODE (16) AND PLANT AREA CODE (01). UNLESS SPECIFIED OTHERWISE.
2. HYDRATE INHIBITOR INJECTION POINTS.
3. DELETED.
4. CONTROL VALVE IS PROVIDED WITH A MECHANICAL MINIMUM STOP TO ENSURE VALVE DOES NOT CLOSE MORE THAN REQUIRED FOR ANTI-SURGE FLOW AT MAXIMUM COMPRESSOR SPEED.
5. ALL THE DRAIN BRANCH LINES SHALL ENTER THE CLOSED DRAIN HEADER AND SUB-HEADER ABOVE THE CENTERLINE.
6. FLARE BRANCHES TO BE CONNECTED TO THE TOP ON THE MAIN HEADER AND/OR SUBHEADER AT 45°.
7. DELETED.
8. FOR CHEMICAL INJECTION NOZZLE DETAILS REFER TO LEGEND P&ID 30.99.08.1601 SHT. 3 OF 16.
9. THE INLET AND OUTLET PIPING ON THE AIR COOLER ARE SYMMETRICAL.
10. AIR COOLER LOUVERS SHALL BE OPERATED MANUALLY.
11. TWO-PHASE FLOW.
12. VALVE WITH METAL SEAT IN PEEK.
13. REFER TO DOCUMENT LIST OF SPECIALITY ITEMS, P16093-30-99-19-1603 FOR SPECIALITY ITEM DETAILS.
14. FOR DETAIL OF "TYPE 05B" REFER LEGEND P&ID NO 30.99.08.1601 SHT. 11 OF 16.
15. BYPASS CONTROL VALVE IS USED TO ACHIEVE AUTOMATIC FINE TUNING OF COOLER OUTLET TEMPERATURE OF EXPORT.
16. LOW TEMPERATURE ALARM AT COOLER OUTLET SET AT 20° C. WHEN ACTIVATED (TI-3610-14) SHALL ALERT THE OPERATOR FOR HYDRATE FORMATION.
17. IN ORDER TO AVOID FREQUENT START/STOP VFD FOR 50% OF THE FAN IS CONSIDER.
18. 2OO3 VOTING LOGIC.
19. ALL THE THERMOWELLS SHALL BE LOCATED AT LEAST 30D DOWN STREAM OF THE MIXING POINT FOR ACCURATE TEMPERATURE MEASUREMENT.
20. TCV-3610-14 A & TCV-3610-14 B SHALL BE DESIGNED FOR BIDIRECTIONAL FLOW CONSIDERING THE LOCATION OF BLOWDOWN VALVE.
21. LINE IS ROUTED UPTO THE GRADE LEVEL NEAR TO THE LOCATION OF THE PORTABLE SKID.
22. REVERSE ACTING VALVES:



HOLDS:

1. CONTROL VALVE SIZE TO BE CONFIRMED BY VENDOR.
2. AIR COOLER DETAILS WILL BE UPDATED ONCE VENDOR DETAILS ARE RECEIVED.

DRAWING REFERENCE

TITLE	DRG. NO.
P&ID LEGEND	P16093.30.99.08.1601 SHT. 1 TO 16
P&ID 2ND STAGE SUCTION DRUM V-3610 SAHIL CDS	P16093.16.01.08.1682
P&ID GLYCOL CONTACTOR INLET KO DRUM V-3610	P16093.16.01.08.1685
P&ID 2ND STAGE COMPRESSOR K-3610 SAHIL CDS	P16093.16.01.08.1683
P&ID MP FLARE HEADER SAHIL CDS	P16093.16.39.08.1605
P&ID CLOSED DRAIN COLLECTION	P16093.16.01.08.1731

THIS DRAWING IS NEWLY DEVELOPED FOR THIS PROJECT NO.P16093

REV.	DATE	DRN.	CHD.	APD.	DESCRIPTION
1	10/1/2024	KRA	ABS	SHA	ISSUED FOR CONSTRUCTION
F	7/31/2024	KRA	ABS	SHA	ISSUED FOR DESIGN
E	7/4/2024	KRA	ABS	SHA	RE-ISSUED FOR HAZOP
D	6/7/2024	KRA	ABS	SHA	ISSUED FOR HAZOP
C	3/12/2024	KRA	ABS	SHA	ISSUED FOR APPROVAL
B	2/18/2024	KRA	ABS	MAS	RE-ISSUED FOR REVIEW
A	1/26/2024	KRA	ABS	MEB	ISSUED FOR REVIEW

SCALE: N.T.S | LOCATION: SAHIL | PROJECT No. P16093

أدنوك البرية
ADNOC Onshore

CONSULTANT / CONTRACTOR / ~~VENDOR~~
REJLERS TARGET

DRAWING No.

PROJECT: EPC OF SAHIL PHASE 3 DEVELOPMENT PROJECT

DRG. TITLE:
PIPING AND INSTRUMENT DIAGRAM
2ND STAGE COOLER : E-3610-02
EXPORT GAS COMPRESSOR CDS : SAHIL

DRG.No.	AREA	P/AREA	DOC. CODE	SERIAL No.	REV.	SHT	OF	SHT
	16	01	08	1684	1	1	/	1